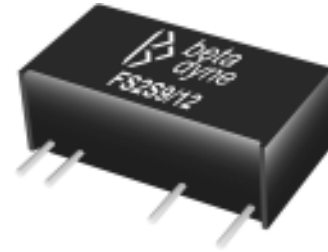




FS2S

2W SINGLE DC/DC CONVERTER



Functional Description

The FS2S series of unregulated 2W single DC/DC converters feature industry standard pinout in a SIP package with a minimum isolation voltage of 3000Vdc, maximum efficiency of 80% and operating temperature range from -40°C to +85°C.

Electrical Specifications: Unregulated

INPUT SPECIFICATIONS

Measured at 25°C with the condition of V_{IN} = Nominal and Full Load. Specifications subject to change without notice.

PARAMETER	CONDITION / NOTE	MIN	TYP	MAX	UNIT
Input Voltage Range	V_{IN} Nominal $\pm 10\%$; See Model Selection Guide				
Input Filter	Capacitor				

OUTPUT SPECIFICATIONS

PARAMETER	CONDITION / NOTE	MIN	TYP	MAX	UNIT
Output Voltage	See Model Selection Guide				
Output Current	See Model Selection Guide				
Output Voltage Accuracy				± 5	%
Ripple & Noise	@20MHz BW			150	mV _{PP}
Line Regulation	Minimum V_{IN} to maximum V_{IN}		1.2%		per 1% of V_{IN}
Load Regulation, 5V _{OUT}	10% FL to FL			15	%
Load Regulation, 9, 12, 15V _{OUT}	10% FL to FL			10	%
Short Circuit Protection			1		sec

GENERAL SPECIFICATIONS

PARAMETER	CONDITION / NOTE	MIN	TYP	MAX	UNIT
Efficiency @ FL	See Model Selection Guide				
Isolation Voltage, Input to Output		3000			Vdc
Isolation Resistance			10		GΩ
Isolation Capacitance			45		pF

ENVIRONMENTAL SPECIFICATIONS

PARAMETER	CONDITION / NOTE	MIN	TYP	MAX	UNIT
Operating Temperature Range	Ambient	-40		+85	°C
Storage Temperature Range		-55		+125	°C

PHYSICAL CHARACTERISTICS

PARAMETER	CONDITION / NOTE	MIN	TYP	MAX	UNIT
Dimensions (LxWxH)	0.77x0.28x0.40 in. (19.65x7.05x10.20mm)				
Weight	0.099 oz. (2.8g)				

MODEL SELECTION GUIDE

MODEL NUMBER	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	INPUT VOLTAGE (Vdc)	EFFICIENCY (%)
FS2S3.3/XX	3.3	606	5, 9, 12, 15, 24	75
FS2S5/XX	5	400	5, 9, 12, 15, 24	75
FS2S9/XX	9	222	5, 9, 12, 15, 24	78
FS2S12/XX	12	166	5, 9, 12, 15, 24	78
FS2S15/XX	15	133	5, 9, 12, 15, 24	80
FS2S24/XX	24	83	5, 9, 12, 15, 24	80

Mechanical Specifications

DIMENSIONS ARE IN INCH(mm)
TOLERANCE: .XX ±.02[0.50]
.XXX ±.010[0.254]

Top View Dimensions:
 Pin 1 to Pin 2: 0.020 [0.50]
 Pin 2 to Pin 5: 0.080 [2.03]
 Pin 5 to Pin 7: 0.100 [2.54]
 Pin 7 to Pin 7: 0.400 [10.16]
 Pin 1 to Pin 7: 0.600 [15.24]
 Pin 1 to Pin 1: 0.020 [0.50]
 Pin 1 to Pin 2: 0.080 [2.03]
 Pin 2 to Pin 5: 0.100 [2.54]
 Pin 5 to Pin 7: 0.400 [10.16]
 Pin 7 to Pin 7: 0.161 [4.10]
 Pin 7 to Pin 7: 0.020 [0.51] X 0.010 [0.25] FLAT PIN

Bottom View Dimensions:
 Pin 1 to Pin 7: 0.278 [7.05]
 Pin 1 to Pin 7: 0.774 [19.65]
 Pin 1 to Pin 1: 0.050 [1.25]

Pin	Function
1	+V _{IN}
2	-V _{IN} (GND)
5	-V _{OUT}
7	+V _{OUT}